

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
3 March 2005 (03.03.2005)

PCT

(10) International Publication Number  
**WO 2005/018430 A2**

(51) International Patent Classification<sup>7</sup>: **A61B**  
(21) International Application Number:  
PCT/US2004/026981  
(22) International Filing Date: 19 August 2004 (19.08.2004)  
(25) Filing Language: English  
(26) Publication Language: English  
(30) Priority Data:  
60/497,022 20 August 2003 (20.08.2003) US  
(71) Applicant (for all designated States except US): **FACET  
TECHNOLOGIES, LLC** [US/US]; 1850 Parkway Place,  
Suite 900, Marietta, GA 30067 (US).

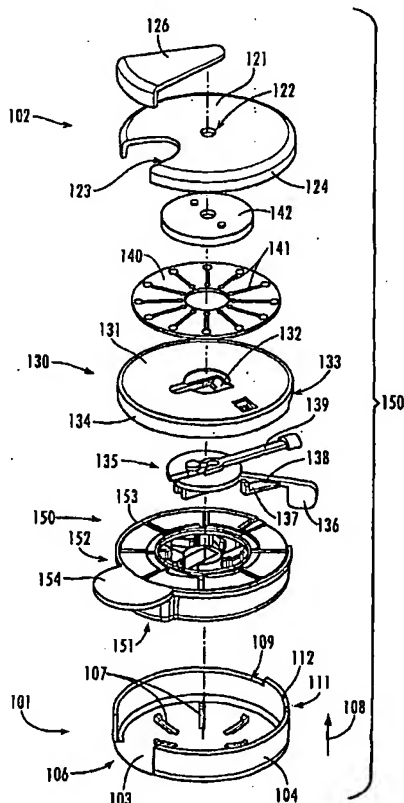
GA 30265 (US). **KENNEDY, Gwenn, E.** [US/US]; 5  
North Lakeside Drive, Ellenwood, GA 30294 (US). **RUF,  
Christopher, J.** [US/US]; 2120 Ithica Drive, Marietta,  
GA 30067-7054 (US). **SOLIS, Mitchell** [US/US]; 1975  
Lexington Lane, Cumming, GA 30004 (US). **ROBBINS,  
Avi, M.** [US/US]; 539 Timber Ridge Drive, Longwood, FL  
32779 (US). **HEATH, Jason, R.** [US/US]; 1530 Mcadoo  
Drive SW, Marietta, GA 30064 (US). **FLYNN, Stephen**  
[US/US]; 605 Wheatleigh Curve, Peachtree City, GA  
30269 (US). **CAMPBELL, Stephanie, J.** [US/US]; 1114  
Hazeltine Lane, Kennesaw, GA 30152 (US). **GRIFFIN,  
Carl, E.** [US/US]; 2081 Breconridge Drive, Marietta, GA  
30064 (US). **IRWIN, John, C.** [US/US]; 148 Springwater  
Trace, Woodstock, GA 30188 (US). **PYNES, Mary, Kate**  
[US/US]; 1175 Old Harris Road #312, Dallas, GA 30157  
(US).

(72) Inventors; and  
(75) Inventors/Applicants (for US only): **LEVAUGHN,  
Richard, W.** [US/US]; 104 Pheasant Road, Newnan, \

(74) Agent: **GROFF, Bradley, K.**; Gardner Groff, PC., Paper  
Mill Village, Bldg. 23, 600 Village Trace Suite 300, Mari-  
etta, GA 30067 (US).

[Continued on next page]

(54) Title: **BLOOD SAMPLING DEVICE**



(57) Abstract: A lancing device for sampling blood or other body fluid of a subject includes a reusable housing and a disposable cassette. The cassette contains a plurality of lancets held in a storage plane. An active lancet is moved transversely from the storage plane into a firing plane, into engagement with a drive mechanism for actuation to lance the subject's skin. After actuation, the used lancet is returned to the storage plane. Each lancet includes a protective endcap that is removed from the lancet just prior to use and then is replaced onto the lancet after use.

WO 2005/018430 A2



(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.